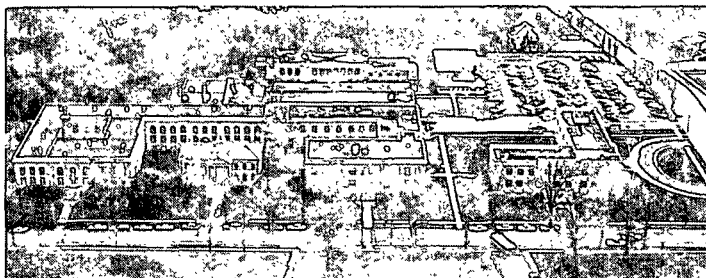


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BASE-LINE

SEP 22 1982



**THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN**

CONTINUOUS BASE-LINE STUDY (MODIFIED)  
(MILL CORRUGATING MEDIUM DATA FOR APRIL, MAY, JUNE, 1982)

Project 2694-2

Report Forty-Eight

A Progress Report

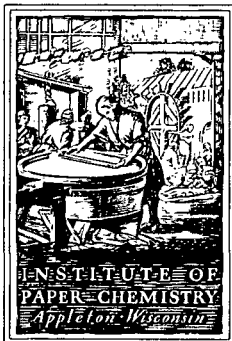
to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

September 1, 1982



THE INSTITUTE OF PAPER CHEMISTRY

Post Office Box 1039  
Appleton, Wisconsin 54912  
Phone: 414/734-9251

September 1, 1982

Project 2694-2

Dear Sir:

We are enclosing a copy of the following report to the Fourdrinier Kraft Board Group of the American Paper Institute:

Report Forty-Eight, Project 2694-2, a progress report  
entitled "Continuous Baseline Study of Mill  
Corrugating Medium; Data for April, May,  
June, 1982" dated September 1, 1982

The code identities for paper machines in your company from which data were submitted for evaluation are given on the inside of the front cover of this report.

Sincerely,

Roger H. Van Eperen  
Manager, Materials Testing Laboratory  
Paper Materials & Systems Division

RHV/sb  
Enclosure

NONPARTICIPANT IN THIS REPORT

BASE-LINE  
2nd QUARTER, 1982

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)  
(MILL CORRUGATING MEDIUM DATA FOR APRIL, MAY, JUNE, 1982)

Project 2694-2

Report Forty-Eight

A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

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September 1, 1982

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)  
(MILL CORRUGATING MEDIUM DATA FOR APRIL, MAY, JUNE, 1982)

SUMMARY OF 26-LB CORRUGATING MEDIUM DATA  
(MARCH-JUNE, 1982)

Test	March		April		May		June	
	Total	Recycled	Total	Recycled	Total	Recycled	Total	Recycled
Moisture content, %	Max. <sup>a</sup>	8.8	7.0	9.1	9.4	7.1	9.2	7.1
	Min. <sup>a</sup>	3.5	3.5	3.4	3.4	3.4	3.7	3.7
	Av. <sup>b</sup>	6.6(33)	5.6(9)	6.7(33)	6.6(32)	5.6(9)	6.6(33)	5.3(9)
Adj. basis weight, lb/M ft <sup>2</sup>	Max. <sup>a</sup>	27.2	27.2	27.4	27.3	27.1	27.3	27.3
	Min. <sup>a</sup>	25.5	26.2	25.3	25.5	26.1	25.5	26.2
	Av. <sup>b</sup>	26.4(33)	26.6(9)	26.3(33)	26.3(32)	26.6(9)	26.4(33)	26.7(9)
Caliper, pt.	Max. <sup>a</sup>	11.1	9.9	11.4	10.7	10.1	10.8	10.1
	Min. <sup>a</sup>	7.9	7.9	7.9	7.9	7.9	7.8	7.8
	Av. <sup>b</sup>	9.7(31)	9.2(8)	9.8(31)	9.5(28)	9.2(8)	9.5(29)	9.2(8)
Concora, lb	Max. <sup>a</sup>	69.7	69.7	68.9	71.0	69.0	70.0	66.7
	Min. <sup>a</sup>	50.5	50.5	50.8	51.0	51.0	50.5	50.5
	Av. <sup>b</sup>	61.2(33)	60.5(9)	60.9(33)	61.6(32)	60.0(9)	61.1(33)	58.6(9)

<sup>a</sup>Current machine average.

<sup>b</sup>Current F.K.B.G. average, number of machines is indicated in parentheses.

## INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on 26-lb corrugating medium manufactured in the member mills of F.K.B.G. Mill data are included for moisture content, basis weight, caliper, and Concora made on the production of individual machines which produced at least 500 tons of this grade weight during a given month.

## PRESENTATION OF DATA

For the 26-lb grade weight of corrugating medium referred to earlier, data on conditioning and testing environments, mill test averages for moisture content, adjusted basis weight, caliper, and Concora results are compiled in the following tables.

Table Number	Description
I-II-III	Mill Test Averages on 26-Lb Corrugating Medium
IV	Data on Conditioning and Testing Environments

The procedure used in calculating cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of 26-lb corrugating medium during the specified month, or (b) produced 500 tons of 26-lb corrugating medium during any one or more of the 12 months prior to the specified month (so that a cumulative average is available), to be included in a given table.

TABLE I  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM  
APRIL, 1982

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1	5.9	6.3	93.6	89.4	27.4	27.0	101.5	103.8	10.8	9.7	111.3	112.5	57.0	59.2	96.3	92.8
B1	9.1	9.3	97.8	137.9	25.3	25.3	100.0	95.8	9.5	9.5	100.0	99.0	64.3	64.4	99.8	104.7
C1	6.4	6.5	98.5	97.0	26.4	26.3	100.4	100.0	9.6	9.8	98.0	100.0	60.7	62.1	97.7	98.9
D1		5.5				26.9				11.0				61.8		
G1	5.6	5.7	98.2	84.3	26.7	26.4	101.1	101.1	10.3	10.2	101.0	107.3	62.0	62.2	99.7	101.0
K1	7.1	7.0	101.4	107.6	25.9	26.1	99.2	98.1	9.6	9.6	100.0	100.0	58.0	58.6	99.0	94.5
L1	7.3	7.1	102.8	110.6	26.2	26.3	99.6	99.2	9.0	9.0	100.0	93.8	59.6	60.8	98.0	97.1
R1(R)	7.0	6.9	101.4	106.1	26.2	26.2	100.0	99.2					63.2	62.6	101.0	102.9
T1	7.3	7.0	104.3	110.6	26.1	26.3	99.2	98.9	10.6	10.4	101.9	110.4	57.0	59.2	96.3	92.8
U1	6.9	6.7	103.0	104.5	26.2	26.4	99.2	99.2	9.9	9.8	101.0	103.1	58.0	57.2	101.4	94.5
Z1(R)	4.2	4.6	91.3	63.6	26.9	26.9	100.0	101.9	9.8	9.6	102.1	102.1	59.3	59.4	99.8	96.6
A2	7.8	7.3	106.8	118.2	26.1	26.1	100.0	98.9	9.4	8.6	109.3	97.9	63.0	64.4	97.8	102.6
D2(R)	6.9	7.0	98.6	104.5	26.1	26.2	99.6	98.9	9.5	9.7	97.9	99.0	68.9	69.5	99.1	112.2
E2	7.4	7.4	100.0	112.1	26.2	26.3	99.6	99.2	10.5	10.4	101.0	109.4	61.0	61.1	99.8	99.3
J2		5.4				27.0				9.6				54.2		
S2	5.9	5.5	107.3	89.4	26.3	26.4	99.6	99.6	9.4	9.3	101.1	97.9	64.0	64.9	98.6	104.2
Z2(R)	5.8	5.7	101.8	87.9	26.9	26.8	100.4	101.9	9.7	9.6	101.0	101.0	59.9	59.7	100.3	97.6
A3	7.5	7.2	104.2	113.6	26.0	26.3	98.8	98.5		9.4			55.0	55.9	98.4	89.6
B3(R)	5.7	5.7	100.0	86.4	26.4	26.4	100.0	100.0	9.5	9.5	100.0	99.3	65.0	63.8	101.9	105.9
D3(R)	6.3	6.5	96.5	95.4	26.6	26.6	100.0	100.8	9.1	9.1	100.0	94.3	61.0	60.8	100.3	99.3
E3		5.0				27.1				9.1						
N3	6.8	7.0	97.1	103.0	26.2	26.2	100.0	99.2	10.4	10.6	98.1	108.3	58.0	58.2	99.6	94.5
O3		6.5				26.7				9.0				63.1		
P3(R)	6.0	6.0	100.0	90.9	26.6	26.4	100.8	100.8	9.0	9.0	100.0	93.8	50.8	55.3	91.9	82.7
Q3	7.1	6.8	104.4	107.6	27.0	27.2	99.3	102.3	10.2	10.3	99.0	106.2	63.6	67.3	94.5	103.6
R3	7.5	7.5	100.0	113.6	26.3	26.3	100.0	99.6	8.8	8.8	100.0	91.7	68.0	66.5	102.2	110.7
S3		7.0				26.1				8.7				67.4		
V3	5.9	6.0	98.3	89.4	25.9	25.8	100.4	98.1	10.0	10.0	100.0	104.2	65.0	63.4	102.5	105.9
X3	7.0	7.0	100.0	106.1	26.1	26.2	99.6	98.9	9.1	9.3	97.8	94.8	63.0	62.0	101.6	102.6
Y3	7.1	7.0	101.4	107.6	26.2	26.4	99.2	99.2	11.4	10.4	109.6	118.8	61.5	62.2	98.9	100.2
Z3	6.9	6.8	101.5	104.5	26.1	26.2	99.6	98.9	11.2	10.9	102.8	116.7	66.3	66.5	99.7	108.0
A4	6.5	6.9	94.2	98.5	26.3	26.2	100.4	99.6	8.8	8.9	99.9	91.7	62.2	61.1	101.8	101.3
B4(R)	3.4	3.7	91.9	51.5	27.0	27.1	99.6	102.3	7.9	7.9	100.0	82.3	60.4	60.9	99.2	98.4
C4	8.2	8.1	101.2	124.2	26.1	26.1	100.0	98.9	9.2	8.8	104.5	95.8	61.0	62.2	98.1	99.3
F4	7.8	7.1	109.8	118.2	25.9	26.2	98.8	98.1	10.4	10.5	99.0	103.3	57.0	57.7	98.8	92.8
H4		6.6				26.4				11.3				61.3		
I4		6.6				26.3				11.4				60.1		
J4	6.6	6.5	101.5	100.0	26.4	26.3	100.4	100.0	10.4	9.3	111.8	103.3	61.8	61.4	100.6	100.6
S4	8.2	8.0	102.5	124.2	26.2	26.3	99.6	99.2	10.3	10.1	102.0	107.3	63.0	63.6	99.0	102.6
T4		6.2				26.8				10.0				57.3		
U4(R)	5.0	5.1	98.0	75.8	26.8	27.4	97.8	101.5	9.0	9.0	100.0	93.8	52.2	57.3	91.1	85.0

FKBG DATA		TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED	
CUR. AV	6.7		5.6	26.3		26.6		9.8		9.2		60.9	60.1
CUM. AV	6.6		5.8	26.4		26.6		9.6		9.2		61.4	60.9
IND. *D	101.5		96.6	99.6		100.0		102.1		100.0		99.2	98.7

(\*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.



TABLE II

AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM

MAY, 1982

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT., *A LB./ M SQ. FT.				CALIPER, PT.				CONCORD TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *9	IND. *C	CUR. AV.	CUM. AV.	FACT. *8	IND. *C	CUR. AV.	CUM. AV.	FACT. *3	IND. *C	CUR. AV.	CUM. AV.	FACT. *3	IND. *C
A1		6.2				27.0				9.8				59.0		
B1	9.4	9.2	102.2	142.4	25.5	25.3	100.8	96.6	9.5	9.5	100.0	99.0	65.4	64.4	101.6	106.7
C1	6.4	6.4	100.0	97.0	26.4	26.3	100.4	100.0	9.5	9.7	97.9	99.0	60.8	62.0	98.1	99.2
D1		5.5				26.9				11.0				62.0		
G1	5.6	5.7	98.2	84.8	26.4	26.4	100.0	100.0	10.2	10.2	100.0	106.2	62.0	62.2	99.7	101.1
K1	7.2	7.1	101.4	109.1	26.0	26.1	99.6	98.5	9.9	9.6	103.1	103.1	57.0	58.6	97.3	93.0
L1	7.2	7.2	100.0	109.1	26.4	26.3	100.4	100.0	8.9	9.0	98.9	92.7	62.0	60.6	102.3	101.1
R1(R)	7.1	6.9	102.9	107.6	26.3	26.2	100.4	99.6					63.0	62.7	100.5	102.8
T1	7.2	7.1	101.4	109.1	26.4	26.3	100.4	100.0		10.4			61.0	58.9	103.6	99.5
U1	6.9	6.8	101.5	104.5	26.2	26.4	99.2	99.2	9.9	9.8	101.0	103.1	58.0	57.2	101.4	94.6
Z1(R)	4.5	4.6	97.8	68.2	26.8	26.9	99.6	101.5	9.5	9.5	100.0	99.0	56.3	59.4	99.8	96.7
A2	6.4	7.4	86.5	97.0	26.1	26.1	100.0	98.9	8.8	8.7	101.1	91.7	64.0	64.2	99.7	104.4
D2(R)	6.9	7.0	98.6	104.5	26.2	26.2	100.0	99.2	9.5	9.7	97.9	99.0	69.0	69.4	99.4	112.6
E2	7.4	7.4	100.0	112.1	26.2	26.3	99.6	99.2	10.4	10.4	100.0	108.3	60.4	61.2	98.7	98.5
J2		5.4				27.0				9.6				54.2		
S2	5.6	5.5	101.8	84.8	26.2	26.4	99.2	99.2	8.9	9.3	95.7	92.7	62.2	64.8	96.0	101.5
Z2(R)	5.5	5.8	94.8	83.3	26.1	26.8	97.4	98.9	10.1	9.6	105.2	105.2	59.9	59.8	100.2	97.7
A3	7.3	7.3	100.0	110.6	26.3	26.3	100.0	99.6		9.3			59.0	55.8	105.7	96.2
B3(R)	5.9	5.7	103.5	89.4	26.4	26.4	100.0	100.0	9.5	9.4	101.1	99.0	64.3	63.9	100.6	104.9
D3(R)	6.0	6.5	92.3	90.9	26.7	26.6	100.4	101.1	9.1	9.1	100.0	94.3	62.0	60.8	102.0	101.1
E3		5.0				27.1				9.1						
N3	7.2	7.0	102.8	109.1	26.1	26.2	99.6	98.9	10.3	10.6	97.2	107.3	58.0	58.2	99.6	94.6
P3(R)	6.0	6.0	100.0	90.9	26.8	26.4	101.5	101.5	9.0	9.0	100.0	93.8	51.0	54.6	93.4	83.2
Q3	7.0	6.8	102.9	106.1	27.3	27.2	100.4	103.4	10.4	10.2	102.0	108.3	61.2	66.4	92.2	99.8
R3	7.1	7.5	94.7	107.6	26.3	26.3	100.0	99.6	8.8	8.8	100.0	91.7	71.0	66.3	107.1	115.8
S3	7.0	6.9	101.4	106.1	26.1	26.1	100.0	98.9	8.8	8.7	101.1	91.7	67.0	57.2	99.7	109.3
V3	5.5	6.0	98.3	89.4	26.0	25.8	100.8	98.5	9.9	10.0	99.0	103.1	66.0	63.5	103.9	107.7
X3	7.1	7.0	101.4	107.6	26.1	26.2	99.6	98.9	9.0	9.3	96.3	93.8	61.0	62.3	97.9	99.5
Y3	7.2	7.0	102.8	109.1	26.2	26.4	99.2	99.2	10.5	10.6	99.0	109.4	62.2	62.1	100.2	101.5
Z3	6.9	6.9	100.0	104.5	26.1	26.2	99.6	98.9	10.7	10.9	98.2	111.4	68.1	66.4	102.6	111.1
A4	6.4	6.9	92.8	97.0	26.4	26.3	100.4	100.0	8.9	8.9	100.0	92.7	62.1	61.2	101.5	101.3
B4(R)	3.4	3.7	91.9	51.5	27.1	27.0	100.4	102.6	7.9	7.9	100.0	82.3	59.9	50.8	98.4	97.6
C4	8.2	8.1	101.2	124.2	26.1	26.1	100.0	98.9	8.9	8.8	101.1	92.7	62.0	62.1	99.8	101.1
F4	7.6	7.2	105.6	115.2	26.1	26.2	99.6	98.9		10.5			61.0	57.6	105.9	99.5
H4		6.6				26.4				11.3				61.3		
I4		6.6				26.3				11.5				59.1		
J4	6.5	6.5	100.0	98.5	26.3	26.3	100.0	99.6	10.0	9.4	106.4	104.2	60.8	61.4	99.0	99.2
S4		8.0				26.3				10.1				63.6		
T4		6.2				26.8				10.1				57.4		
U4(R)	5.0	5.2	96.2	75.8	26.8	27.3	98.2	101.5	9.0	9.0	100.0	93.3	52.0	56.6	91.9	84.8

FKBG DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.6	5.6	26.3	26.6	9.5	9.2	61.6	60.0
CUM. AV	6.6	5.8	26.4	26.6	9.6	9.2	61.3	60.8
IND. *D	100.0	96.6	99.6	100.0	99.0	100.0	100.5	98.7

(\*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE III  
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM  
JUNE, 1982

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT., *A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		6.2				27.0				9.8				59.1		
B1	9.2	9.2	100.0	139.4	25.5	25.3	100.8	96.6	9.6	9.5	101.0	100.0	63.1	64.4	98.0	102.9
C1	6.5	6.4	101.6	98.5	26.4	26.3	100.4	100.0	9.4	9.7	96.9	97.9	60.6	61.7	98.2	98.8
D1		5.6				26.9				11.0				52.0		
G1	5.6	5.7	98.2	84.8	26.4	26.4	100.0	100.0	10.1	10.2	99.0	105.2	63.0	62.2	101.3	102.8
K1	7.0	7.1	98.6	106.1	26.0	26.1	99.6	98.5	10.2	9.6	106.2	106.2	58.0	58.5	99.1	94.6
L1	7.6	7.2	105.6	115.2	26.2	26.3	99.6	99.2	8.8	9.0	97.8	91.7	61.8	60.7	101.8	100.8
R1(R)	7.1	6.9	102.9	107.6	26.2	26.2	100.0	99.2					63.0	62.9	100.2	102.8
T1	7.1	7.1	100.0	107.6	26.3	26.3	100.0	99.6		10.4			59.0	58.7	100.5	96.2
U1	6.9	6.8	101.5	104.5	26.3	26.3	100.0	99.6	5.8	9.8	100.0	102.1	57.0	57.2	99.6	93.0
Z1(R)	4.4	4.6	95.6	66.7	26.9	26.9	100.0	101.9	9.6	9.6	100.0	100.0	58.2	59.4	98.0	94.9
A2	7.4	7.3	101.4	112.1	26.1	26.1	100.0	98.9	8.9	8.8	101.1	92.7	67.0	64.0	104.7	109.3
D2		7.0				26.2				9.6				69.4		
E2	7.4	7.5	98.7	112.1	26.4	26.3	100.4	100.0	10.4	10.4	100.0	108.3	59.9	61.0	98.2	97.7
J2(R)	5.2	5.3	98.1	78.8	26.7	26.8	99.6	101.1	9.7	9.5	102.1	101.0	57.0	54.2	105.2	93.0
S2	5.9	5.5	107.3	89.4	26.2	26.4	99.2	99.2	8.8	9.3	94.6	91.7	62.0	64.6	96.0	101.1
Z2(R)	4.9	5.8	84.5	74.2	26.8	26.7	100.4	101.5	10.1	9.6	105.2	105.2	59.1	59.9	98.7	96.4
A3	7.4	7.3	101.4	112.1	26.7	26.3	101.5	101.1		9.3			58.0	55.8	103.9	94.6
B3(R)	5.7	5.7	100.0	86.4	26.4	26.4	100.0	100.0	5.5	9.4	101.1	99.0	66.7	64.0	104.2	108.8
D3(R)	6.3	6.4	98.4	95.4	26.7	26.6	100.4	101.1	9.0	9.1	98.9	93.8	62.0	60.9	101.8	101.1
E3		5.0				27.1				9.1						
N3	7.2	7.0	102.8	109.1	26.2	26.2	100.0	99.2	10.3	10.6	97.2	107.3	58.0	58.3	99.5	94.6
P3(R)	6.0	6.0	100.0	90.9	26.6	26.4	100.8	100.8	9.0	9.0	100.0	93.8	50.8	53.9	94.2	82.9
Q3	6.8	6.9	98.6	103.0	26.4	27.2	97.0	100.0	10.3	10.3	100.0	107.3	64.8	65.4	99.1	105.7
R3	7.7	7.5	102.7	116.7	26.0	26.2	99.2	98.5	8.8	8.8	100.0	91.7	66.0	66.6	99.1	107.7
S3	7.3	6.9	105.8	110.6	26.1	26.1	100.0	98.9	8.9	8.7	102.3	92.7	70.0	67.2	104.2	114.2
V3	5.7	5.9	96.6	86.4	26.1	25.9	100.8	98.9	10.0	10.0	100.0	104.2	64.0	63.8	100.3	104.4
X3	6.8	7.0	97.1	103.0	26.6	26.2	101.5	100.8	9.4	9.3	101.1	97.9	61.0	62.1	98.2	99.5
Y3	7.1	7.0	101.4	107.6	26.2	26.4	99.2	99.2	10.8	10.6	101.9	112.5	62.0	62.1	99.8	101.1
Z3	6.9	6.9	100.0	104.5	26.2	26.2	100.0	99.2	10.4	11.0	94.5	108.3	68.4	66.4	103.0	111.6
A4	6.3	6.8	92.6	95.4	26.4	26.3	100.4	100.0	8.6	8.9	96.6	89.6	62.3	61.4	101.5	101.6
B4(R)	3.7	3.6	102.8	56.1	27.0	27.1	99.6	102.3	7.8	7.9	98.7	81.2	60.0	60.8	98.7	97.9
C4	8.2	8.1	101.2	124.2	26.1	26.1	100.0	98.9	9.0	8.8	102.3	93.8	61.0	62.0	98.4	99.5
F4	7.2	7.2	100.0	109.1	26.2	26.2	100.0	99.2		10.5			58.0	57.7	100.5	94.6
H4		6.6				26.4				11.4				60.5		
I4		6.7				26.3				11.6				58.5		
J4	6.5	6.5	100.0	98.5	26.3	26.3	100.0	99.6	9.9	9.5	104.2	103.1	61.0	61.3	99.5	99.5
S4	8.6	8.0	107.5	130.3	26.0	26.4	98.5	98.5	10.1	10.2	99.0	105.2	64.0	63.4	100.9	104.4
T4		6.2				26.9				10.2				57.3		
U4(R)	4.6	5.2	88.5	69.7	27.3	27.2	100.4	103.4	9.0	9.0	100.0	93.8	50.5	55.8	90.5	82.4

FKBG DATA


	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.6	5.3	26.4	26.7	9.5	9.2	61.1	58.6
CUM. AV	6.6	5.8	26.4	26.6	9.6	9.2	61.3	60.7
IND. *D	100.0	91.4	100.0	100.4	99.0	100.0	99.7	96.5

(\*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

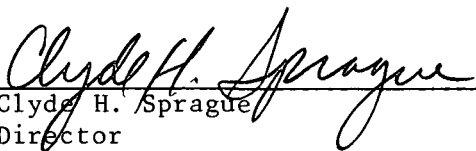
TABLE IV  
DATA ON CONDITIONING AND TESTING ENVIRONMENTS  
APRIL, MAY, JUNE, 1982

Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature & Humidity?
A1	Yes	20 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
B1	No	--	--	--	No
C1	No	--	--	--	No
D1	No data submitted for this quarter				No
G1	No	--	--	--	Yes: 73 ± 1°F; 50 ± 2% RH
K1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
L1	No	--	--	--	No
R1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 5% RH
T1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
U1	No	--	--	--	No
Z1	No	--	--	--	No
A2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
D2	No	--	--	--	Yes: 72 ± 1°F; 50 ± 1% RH
E2	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
J2	Yes	20 min	--	--	Yes: 72 ± 3.5°F; 50 ± 2% RH
S2	No	--	--	--	No
Z2	No	--	--	--	No
A3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
B3	No	--	--	--	Yes: 72 ± 2°F; 50 ± 3% RH
D3	No	--	--	--	No
E3	No data submitted for this quarter				
N3	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
P3	Yes	15 min	73	50	Yes: 73 ± 3°F; 50 ± 2% RH
Q3	No	--	--	--	No
R3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
S3	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
V3	No	--	--	--	No
X3	No	--	--	--	No
Y3	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
Z3	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
A4	Yes	20 min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
B4	No	--	--	--	Yes: 73 ± 2°F; 50 ± 5% RH
C4	No	--	--	--	Yes: 70 ± 2°F; 50 ± 10% RH
F4	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
H4	No data submitted for this quarter				
I4	No data submitted for this quarter				
J4	No	--	--	--	No
S4	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
T4	No data submitted for this quarter				
U4	Yes	15 min	73	50	Yes: 73 ± 3°F; 50 ± 2% RH

THE INSTITUTE OF PAPER CHEMISTRY

  
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Research Fellow  
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Approved by

  
Clyde H. Sprague  
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# APPENDIX

## NOTES A, B, C, D, AND E, USED IN TABULATIONS OF MILL DATA

Notes A, B, C, D, and E, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and F.K.B.G. index. It should be stressed that each formula is applicable only to a specific physical property of corrugating medium.

Note A: Adjusted basis weight (ABW) = reported weight (RBW) adjusted to moisture content of 7.8%:

$$ABW = RBW \left[ \frac{(100 - \text{reported moisture content, \%})}{(100 - 7.8)} \right]$$

Note B: Machine factor (%) =  $\left[ \frac{\text{Current machine average}}{\text{Cumulative machine average}} \right] \cdot 100$  where

$$\text{Cumulative machine average} = \sum \frac{\text{CMA's}^a \text{ for previous 12 months excluding CMA for current month}}{12}$$

Note C: Machine index (%) =  $\left[ \frac{\text{Current machine average}}{\text{Cumulative F.K.B.G. total average}} \right] \cdot 100$  where

$$\text{Cumulative F.K.B.G. average} = \sum \frac{\text{CFKBGA's}^b \text{ for previous 12 months excluding CFKBGA for current month}}{12}$$

Note D: F.K.B.G. index (%) =  $\left[ \frac{\text{Current F.K.B.G. average}}{\text{Cumulative F.K.B.G. average}} \right] \cdot 100$  where

$$\text{Current F.K.B.G. average} = \sum \frac{\text{CMA's}^a \text{ for current month for all machines}}{\text{Number of machines}}$$

Note E: (R) - Indicates a medium manufactured from recycled fibers.

<sup>a</sup>CMA = current machine average for a specific physical property of 26-lb corrugating medium obtained during a given month on a specific machine.

<sup>b</sup>CFKBGA = current F.K.B.G. average for a specific physical property of 26-lb corrugating medium obtained during a given month.

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